

Updated: 1632U 16 NOV 07

- Sector San Francisco Command Center, Unit, and Division Logs/Personal Statements are in black
- Department of Fish and Game Log is in Red
- MSRC Timeline is in Blue
- NRC Timeline is in Green
- Other Statements are in Orange

<b>M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007</b>	
<b>Time</b>	<b>Event</b>
0827	VTs called the Pilot of COSCO BUSAN via VHF-FM and questioned his course of action regarding his continued intent to pass through the Delta Echo span of the Bay Bridge. (VTs recordings)
0830	Pilot of COSCO BUSAN notified VTs via VHF-FM that vessel allided with the Delta piling of SFOBB. (MISLE, IMD Log)
0830	Sector SF Vessel Traffic Service notified Sector SF Command Center that container ship, COSCO BUSAN hit the San Francisco Oakland Bay Bridge (SFOBB) Delta piling on the west side of Yerba Buena Island. (MISLE)
0833	VTs notified CalTrans dispatch of allision. (MISLE)
0836	Pilot contacted VTs via cell phone to report allision. (VTs Oral Statement)
0836	VTs issued Safety Notice to Mariner's Broadcast (SMIB) on VHF-FM 16. (MISLE)
0837	SCC notified Sector Prevention Investigations (LTJG Hopper) (MISLE)
0837	Captain McIsaac (President SF Bar Pilot Assoc) on Pilot Boat GOLDEN GATE with Relief Pilot (and 2 others) called USCG COTP to inform him of the allision and that he was enroute. (McIsaac statement to NTSB)
0840	SCC notified D11 DPW Bridge Section (Dave Souloff). (MISLE)
0845	SCC directed Sta SF to pick up and deliver Pollution Investigators to COSCO BUSAN. (IMD Log, MISLE –time recorded in MISLE as 0846)
0846	SCC briefed duty Port State Control Inspector (LT Fu) (SCC Situation Controller Log)
0846	Captain McIsaac called VTs to inform them there was pier debris and oil in the water and recommended that Army Corps of Engineers (USACE) be notified. (McIsaac statement to NTSB Recorded in MISLE as 0848)
0850	COSCO BUSAN anchored in Anchorage 7. (MISLE, IMD Log)
0850	SCC briefed Sector Incident Management Division. (MISLE, IMD Log states 0856)
0852	P/V GOLDEN GATE arrived on scene as M/V COSCO BUSAN was anchoring in Anchorage 7 and Captain McIsaac noted a "substantial flow of oil was pouring out minutes after part of the damaged area" that seemed to subside within about 10 minutes at which point the oil was just running down the hull. He noted crewmen frequently looking over the side in the vicinity of the oil leak. (McIsaac statement to NTSB)
0854	Captain McIsaac called VTs and informed them that "oil was pouring out of the hull and they needed to activate the spill response procedures." (McIsaac statement to NTSB)
0855	Replacement SF Bar Pilot relieves mishap Pilot; Pilot involved in the allision departs

<b>M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007</b>	
<b>Time</b>	<b>Event</b>
	COSCO BUSAN via SF Bar Pilot vessel. (MISLE)
0859	VTs issues <i>SECURITE</i> broadcast for minimum wake in Anchorage 7. (MISLE)
0903	CG Sta SF 41ft UTB u/w with Sector Pollution Team en route with CG Station San Francisco boat to the incident. (IMD Log/recorded in MISLE as 0904)
0905	VTs contacts US Army Corps of Engineers (USACE) and reports debris field south of SFOBB. (MISLE)
0905	NRC received report of incident. (NRC Timeline)
0910	TUG LYNN MARIE informed VTs of fuel and debris in the water. (MISLE)
0910	PI team was at the Bay Bridge checking the damage. (PI Statement)
0910	NRC dispatched the 32ft Fast Response Vessel (FRV) and MARCO Skimmer to Bay Bridge. (NRC Timeline)
0910	SFFD contacted SCC, inquires if any SAR assistance is required. SCC advised no SAR assistance required. SFFD then called their marine dispatch. (Conversation between SCC (OSS Nagle) and SFFD (Kyle Perkins), confirmed with both parties by SCC Chief)
0912	QI (The O'Brien's Group) was contacted by vessel master of allision. (QI Lawyer Statement on 14NOV)
0913	Sta SF 41 ft UTB o/s at SFOBB Delta piling, observed damage and approx 3 ft wide oil slick. Visibility approx 100 yds. (MISLE)
0915	COSCO BUSAN logs indicated fuel oil transfer to starboard tanks initiated. (Bridge log)
0915	NRC called their International Operations Center (IOC) to ask if they had any reports of the incident. No reports had been received. NRC called the Marine Exchange and verified that the COSCO BUSAN had hit the Bay Bridge. (NRC Timeline)
0917	Pilot of vessel contacted MSRC and left a message regarding spill (QI Lawyer Statement on 14NOV, MSRC Timeline)
0918	OSRO Marine Spill Response Corporation (MSRC) notified by RP. (MSRC Oral Statement)
0918	MSRC Duty Officer contacted pilot of vessel and reported that 10 bbls spilled and leak was secured. (QI Lawyer Statement on 14NOV, MSRC Timeline)
0920	Sector Pollution team was at the SFOBB checking for structural damage. (SITREP, IMD Log)
0920	NRC called IOC to confirm that COSCO BUSAN is a client. They confirmed, but again stated they had not yet received a report of the incident. NRC stated they will have units on scene any minute. (NRC Timeline)
0922	USACE notified SCC that they would send assets for debris clean-up. (MISLE)
0922	SCC contacted vessel agent, who stated that their Oil Spill Removal Organization (OSRO) had been notified. (MISLE)
0923	VTs questioned pilot on fuel discharge. Pilot reported source secure. (MISLE)
0923	VTs inquired if oil response vessels had checked in. None checked in. (MISLE)
0923	News stations were reporting the allision. (IMD Log)
0925	CA Department of Fish and Game Office of Spill Prevention and Response representative LT Rob Roberts, who was on YBI at Sector, was notified of spill. (CA DFG log)

**M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007**

Time	Event
0925	Sector Pollution team and Station San Francisco followed the spill, which was 3 ft wide, from the SFOBB to Anchorage 7, where the vessel was located. (IMD Log)
0927	First Conf Call w/Captain of the Port took place. IMD personnel (not those o/s). (IMD Log/MISLE recorded as 0930)
0930	Sector San Francisco initiated a 100 yard safety zone around the vessel. (SITREP, IMD Log)
0930	Sta SF UTB o/s with COSCO BUSAN, Pollution Investigators (PIs) observe oil still being released (approx one inch wide stream). (PI Statement)
0930	MSRC contacted pilot of vessel who reported that vessel is currently located at Anchorage 7. Pilot again stated that approximately 10bbls had spilled and the leak was secure. Pilot stated weather is foggy and visibility ¼ mile. (QI Lawyer Statement on 14NOV, MSRC Timeline)
0930	NRC reports that crews are on site; heavy fog and no sign of oil as of yet. (NRC Timeline)
0930	CA DFG sends investigators to check West Span of SFOBB and SF Ferry Terminal Area. (CA DFG log)
0935	PI's on board UTB observe oil release reduced to a seepage rate. Report damage to hull is 100ft long gash by 12ft tall, 2-10ft above the waterline. (IMD Log, PI Statement)
0935	MSRC informed pilot of vessel that MSRC will mobilize resources. (QI Lawyer Statement on 14NOV, MSRC Timeline)
0935	NRC field teams report smell of oil and heavy sheen. (NRC Timeline)
0939	CALTRANS reported to VTS that they were on scene checking damage to bridge. (MISLE)
0940	MSRC mobilized two skimming vessels and the Spill Chaser departed from Pier 50. The Spill Spoiler II departed from Richmond. Four boom boats were mobilized; Raider I, Raider III, Pop Can, James Dean. (QI Lawyer Statement on 14NOV, MSRC Timeline)
0940	NRC dispatched additional resources, including a 22ft FRV. (NRC Timeline)
0942	California Office of Emergency Services issues HazMat Spill Update #07-6839 (went out to USCG, EPA, California Department of Fish and Game, Office of Spill Prevention and Response, Regional Water Quality Control Board, State Lands, Coastal Commission, Parks & Rec, Alameda County, City of Oakland). County and City of SF not indicated on notification list. CA OES had been notified by QI. Event originally reported as occurring in Alameda County which is why San Francisco was not notified in the OES report. (OES report, QI Lawyer Statement on 14NOV)
0945	Unified Command with Fed & State reps established. COTP directs overflight when weather permits. Investigating Officers (IOs) & Marine Inspectors (MIs) dispatched to vessel to find out what type product was released, how much was transferred out of damaged tank, and determine tank capacity. Lt. Roberts, DFG-CA DFG, requested full DFG Field Response Team activation. (IMD Log, CA DFG log)
0945	SCC requested Critical Incident Communications. SCC spoke with HQ, ICC, NOC, and PACAREA representatives. SCC stated that the COSCO BUSAN had allided with the SFOBB Delta Tower and there was an oily substance being discharged. SCC stated that the vessel was at Anchorage 7 and there was a 3ft wide sheen from the point of impact to the

M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007	
Time	Event
	current position. SCC stated there was a safety zone established and that approximately 10 bbls had been reported to have discharged, but Sector Response Teams were underway to investigate and confirm the reported amount of discharge and severity of damage. SCC stated that NOAA was completing a trajectory and that media interest was high. HQ and PACAREA confirmed this was not a CIC and that PACAREA Chief of Response had been notified. Normal information passing procedures were decided to be used between Sector SF and D11. (SCC CDO Statement, MISLE)
0945	PI Team reported that the sounding tubes appear bent and there is uncertain information regarding the fuel discharge. (MISLE)
0945	DFG dispatch is connected by SOSC to see if they have specifics of the incident through the OES warning center notification. Dispatch did not have an OES report at this time. (DFG Log)
0945	NRC received the OES report. (NRC Timeline)
0947	PI Team was given permission to board COSCO BUSAN. (IMD Log)
0949	QI notified National Response Center #85-3865. (QI Lawyer statement 14NOV)
0950	Sector SF IMD (LTJG Snyder) contacted NOAA Scientific Support Coordinator (Jordan Stout) for trajectories. IMD informed USCG rep at RRT Meeting (Las Vegas, NV) of incident. Pollution team began boarding COSCO BUSAN. (IMD Log)
0950	MSRC Spill Chaser arrived at spill scene (QI Lawyer Statement 14NOV).
0950	MSRC 5000 bbl per day skimmer o/s (Spill Chaser). (QI response timeline, MSRC Timeline)
0950	Spill Chaser prepares for and begins conducting required safety site assessment/air monitoring. (MSRC Timeline)
0951	UC contacts CA F&G dispatch & CA DFG Administrator's office to notify CA Governor's office. No report on quantity of oil at this time. (DFG Log)
0951	National Response Center Report #853865 released. (NRC Report)
0951	QI contacted MSRC which is already activated. (QI Lawyer Statement 14NOV)
0954	VTS requests to shift COSCO BUSAN to Anchorage 9 due to draft concerns. COTP authorizes move. (Note: Remaining outflow previously reported as seepage only (see 0935)) (MISLE)
0958	VTS directs COSCO BUSAN to stay at least one nm from any anchored vessel. (MISLE)
1000	Pollution Team on board vessel. (PI Statement)
1000	CGC TERN, at anchorage near Sausalito, directed to get u/w enroute COSCO BUSAN. (CGC TERN Log, reported in MISLE as 0957)
1000	SFPD (Darryl Lopez) contacts SCC and offers assistance. SCC requests SFPD to assist in Safety Zone enforcement. (phone conversation SGT Lopez and CDR DeQuattro)
1000	NRC vessel crews report oil on scene and skimming begins. (NRC Timeline)

<b>M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007</b>	
<b>Time</b>	<b>Event</b>
1002	DFG tries to determine QI for the ship. USCG reports OSRO is MSRC. (DFG Log)
1007	M/V COSCO BUSAN enroute Anchorage 9. (MISLE)
1007	O'Brien's calls MSRC and identifies itself as QI. MSRC briefs O'Brien's on response assets being deployed. (MSRC Timeline)
1010	CGC TERN u/w enr COSCO BUSAN. (CGC TERN Log)
1010	NRC calls QI and agrees to email equipment list. (NRC Timeline)
1012	The O'Brien Group (QI) notifies SCC that OSRO team is being assembled. (MISLE)
1015	Boom boat Raider III underway. (MSRC Timeline)
1017	Sta SF 25ft Response Boat-Small (RBS 25501) u/w enroute COSCO BUSAN. (MISLE)
1018	Spill Spoiler II underway. (MSRC Timeline)
1019	SCC Briefed D11 CC. (SCC Operations Unit Log)
1020	Boom boats Pop Can and James Dean underway (originally directed to COSCO BUSAN for vessel booming if required, but redirected by QI). (MSRC Timeline)
1022	VTs was notified that COSCO BUSAN is underway to anchorage 9. (MISLE)
1024	CGC TERN o/s with COSCO BUSAN, assumes On Scene Commander, enforces Safety Zone. (CGC TERN Log/reported in MISLE as 1022)
1025	Station San Francisco RBS 25501 o/s COSCO BUSAN. (MISLE)
1025	Air monitoring complete and results being compiled. (MSRC Timeline)
1029	Alcohol testing completed on mishap Pilot by SF Bar Pilot's Association at Pier 9. (IO Statement)
1030	The O'Brien Group notified SCC that they are the designated Qualified Individual (QI) and will be coordinating response activities. MSRC & NRC have already been enroute to scene w/four boom boats & two skimmers. (MISLE)
1030	NRC reports 2500 ft of boom placed around oil near ship, one 11K bbl Marco skimmer o/s, (QI response log)
1030	Boom boat Raider I underway. (MSRC Timeline)
1030	MSRC determined it safe to deploy gear and began deployment from Spill Chaser. (MSRC Timeline)
1030	MSRC reports 2500 ft of boom and one skimmer o/s and available. (QI response log)
1030	Chief Engineer of M/V COSCO BUSAN gives PIs initial estimate of 0.4 metric tons estimate of product released. However, given inability to determine the quantity of oil left in the damaged wing tanks (due to the sounding tubes being damaged as well), oil transfer in progress, inability to view extent of oil in water due to 100 yd visibility, and language issues with Chief Engineer, initial report is only rough estimate. (When queried the next day by CG translator whether or not the crew had understood everything they were asked the day before, the crew said no, they hadn't.) (PI Statement)
1031	Sector SF PAO was preparing an official press release. (IMD Log)
1035	QI calls NRC and requested Foss Maritime deployment and MARCO 5 w/ tug and JBF

# **M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007**

Time	Event
	skimmer. NRC dispatches Foss Maritime Tug and Barge 39. (NRC Timeline)
1035	PI told Chief Engineer to sound tanks. PI began interview with the Captain. (PI Statement)
1035	MSRC began sourcing helicopter for overflight. (MSRC Timeline)
1035	Drug testing completed on mishap Pilot by SF Bar Pilot's at Pier 9. (IO Statement)
1036	CGC TERN observed large sheen in position 37-47.66N/122-23.16W. (CGC TERN Log)
1037	Vessel will move to Anchorage 9 from Anchorage 7 due to draft concerns. (IMD Log)
1039	MSRC was reported to be underway to vessel with 4 boats and 1 skimmer. Safety zone will move with vessel as it moves. QI told IMD they were on their way to the UC. (IMD Log)
1040	STA SF RBS 25501 on scene. (CGC TERN Log)
1040	NRC vessel crews report that they need to deploy boom as there are pockets of oil on West side of the Bay Bridge. (NRC Timeline)
1041	QI contacted National Response Corporation (QI Lawyer Statement on 14 NOV).
1044	PI team confirms that vessel is no longer discharging and that vessel is listing 3 degrees after fuel was shifted to starboard tanks. Engineers heated product to transfer to another tank. Personnel cannot get another sounding due to bent sounding tubes. (PI Statement, SITREP, IMD Log)
1045	PIs interviewed Master of COSCO BUSAN to confirm that OSRO had been contacted, issued Notice of Federal Interest. (PI Statement)
1045	Another skimming vessel, Clean Bay II, is mobilized from Pier 50 (although there were no reports from QI that spill is larger than first reported). (MSRC Timeline)
1045	Boom boats Pop Can and James Dean are on scene with 1250ft of boom each. (MSRC Timeline)
1050	CA DFG reports moderate oil ivo SF Ferry Terminal. (CA DFG log)
1050	Additional OES reports are received by NRC. (NRC Timeline)
1054	DFG received report from USCG pollution team that the ship engineers report approximately 146 gallons of product discharged into the bay (DFG Log)
1055	UC is notified that two skimmers are on scene and have commenced operations. (CA DFG log, IMD Log)
1055	QI is identified as The O'Brien's Group, although no representative is on scene. (CA DFG log)
1056	Sector Investigating Officers, Marine Inspectors on board vessel. (SITREP, IMD Log)
1057	Station San Francisco 25ft boats, 255098 and 255096, on scene taking pictures of hull damage. (CGC TERN Log)
1058	Press Release to 125 Contacts: Coast Guard Responds to Container Vessel Allision with San Francisco Bay Bridge. ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1100	255098 transferred 2 personnel to 41392. (CGC TERN Log)
1100	CA DFG requested Oiled Wildlife Care Network (OWCN) be placed on standby. (CA DFG log)
1102	Vessel Master was issued a NOFI. Witness Statements were given to the Master and Chief Mate. (SITREP, IMD Log)
1104	255098, 255096 released from duties. (CGC TERN Log)

M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007	
Time	Event
1105	IO and MI boarded the M/V COSCO BUSAN (PI Statement)
1110	Station San Francisco 41ft vessel, 41392, embarked CDR Achenbach, CWO Weeks, and Chief Brown (all duty inspectors) onto COSCO BUSAN. (CGC TERN Log)
1110	Pilot disembarked COSCO BUSAN. (PI Statement)
1110	Clean Bay II underway. Boom boats Raider I and Raider III were on scene with 600ft of boom each. (MSRC Timeline)
1114	COSCO BUSAN anchored in Anchorage 9. (MISLE)
1115	Press Release, Update 1 to 334 contacts: Coast Guard Responds to Container Vessel Allision with San Francisco Bay Bridge. ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1125	PI Team departed vessel. (PI Statement)
1125	Boom boats Raider I and Raider III deploy 500ft of boom in support of skimming ops. Clean Bay II arrived on scene with 3288bbls/day skimming capacity and 3000ft of boom. (MSRC Timeline)
1126	Confirmed that discharge was Intermediate Fuel Oil 380. CA DFG reports heavy black sheening reached San Francisco piers from the north of the SFOBB. (SITREP, IMD Log)
1126	QI reports that 4 boats and 1 skimmer are dispatched and enroute and an MSRC helo is ready to be launched when fog clears. (CA DFG log, IMD Log)
1130	Contractor helicopter mobilized but unable to fly due to limited visibility. (MSRC Timeline)
1130	Alcohol testing of COSCO BUSAN Master and crew completed. (IO Statement)
1130	NRC reported an additional 2500 ft of boom around Pier 59 & Aquatic Park in SF. 4200 bbl JBF skimmer o/s. (QI response timeline)
1130	MSRC reported an additional 1500 ft of boom and one additional skimmer o/s and available. (QI response timeline)
1132	IMD and SCC plan for original PI team to RTB and send out another team with DFG Investigators and PI's to take samples and determine amount spilled. (IMD Log)
1138	41392 safely disembarked pollution team from COSCO BUSAN. (CGC TERN Log)
1140	Pilot Boat Golden Gate embarked Captain of COSCO BUSAN to observe hull damage. (CGC TERN Log)
1140	PI team disembarked M/V COSCO BUSAN. (SITREP, IMD Log)
1140	Boom boat Raider II mobilized. (MSRC Timeline)
1142	USACE survey boat onscene at Bay Bridge Delta Span. (SITREP, CGC TERN Log)
1143	CA DFG biologist contacted the Gulf of the Farrallones Sanctuary and the California Oiled Wildlife Care Network with the initial spill information. (SITREP, CA DFG log)
1146	Pilot Boat Golden Gate embarked Captain back onto M/V COSCO BUSAN. (CGC TERN Log)
1147	Pilot Boat Golden Gate disembarked Pilot 37 from M/V COSCO BUSAN. (CGC TERN Log)
1153	PI Team on board STA SF small boat taking samples under the SFOBB. (SITREP, IMD Log)
1200	CalTrans reports that bridge is structurally sound. CG Shoreline Cleanup Assessment Team

### M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007

Time	Event
	(SCAT) departs to San Francisco piers for shoreline assessment. First Pollution Team returned to YBI from vessel, second Pollution/Investigation Team departed for vessel. (SITREP/MISLE)
1200	PI team took a sample NW of the Bay Bridge. (PI Statement)
1200	MSST dispatched to enforce safety and security zones. (MISLE)
1202	Sector SF SCAT teams depart for SF waterfront. (IMD Log, DFG Log)
1205	CA DFG investigators embark CG vessel enroute COSCO BUSAN. (CA DFG log, recorded as 1202 in IMD Log)
1207	STA SF 41ft UTB departed scene. (MISLE)
1210	PI Team returned to YBI. (PI Statement)
1210	Press conference held with CG, CALTRANS and CA DFG. (SITREP, IMD Log, CA DFG log)
1215	Spill Spoiler II on scene w/ 12300bbls/day skimming capacity. (MSRC Timeline)
1217	MSRC alerts MSRC PAC/NW region of potential need for additional personnel. (MSRC Timeline)
1220	Boom boat Raider II mobilized. (MSRC Timeline)
1220	Skimming Vessel Sentinel underway. MSRC began mobilizing personnel from MSRC Long Beach site. MSRC alerts MSRC Southern Region for potential need of additional personnel. (MSRC Timeline)
1223	41392 enroute from Sector to COSCO BUSAN with 3 Department of Fish and Game personnel and 1 PI. (CGC TERN Log)
1229	SCAT reports Piers 28-30 clear of oil, piers north of SFOBB report black oil globules and black sheen to rainbow sheen throughout. (IMD Log, CA DFG log)
1230	CG Aids-to-Navigation Team (ANT) reports all navigation aids in the vicinity of incident are watching properly. (COMS Msg from ANT SF 072148ZNOV07)
1230	Boom boat LCM 824 w/8000ft boom mobilized. (MSRC Timeline)
1230	NRC vessel crews reported large pockets of oil heading toward Angel Island and the Golden Gate. (NRC Timeline)
1244	SCAT reports Piers 1 and 2 have oiled birds and wildlife. (IMD Log, SITREP)
1244	UC received trajectory from NOAA. (DFG Log)
1246	Received trajectory (where the oil is expected to flow) from NOAA. (SITREP) Sheen spotted by Alcatraz Island. (IMD Log)
1247	41392 embarked 3 DFG personnel and 1 PI onto COSCO BUSAN. (CGC TERN Log)
1248	Unified Command set objectives and began coordinated response efforts. (SITREP, IMD Log, Listed as 1246 Command and General Staff Mtg in DFG Log)
1250	NRC reported situation to QI. Asked if they need to boom the vessel. QI said they would call back. (NRC Timeline)
1251	MSRC Operations Section Chief o/s at YBI with UC. (IMD Log, CA DFG log)
1253	SFPD Marine 3 reported debris heading out with tide. (CGC TERN Log)
1300	QI reported that they are setting up a command post for the incident. (IMD Log)
1300	Skimming vessel Pacific Responder mobilized as QI told MSRC spill appears larger than



M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007	
Time	Event
	originally thought. (MSRC Timeline)
1300	QI called NRC and confirmed that vessel does not need to be boomed, but to stand by for when the vessel gets to Anchorage 9. (NRC Timeline)
1304	CALTRANS requested to come alongside M/V COSCO BUSAN for pictures and investigation. (CGC TERN Log)
1304	ASSF briefed for launch. (MISLE)
1305	SCAT reported oil from Piers 1-3. (IMD Log, SITREP)
1305	All Station San Francisco resources RTB. CGC TERN remains on scene. (CGC TERN Log)
1310	STA SF 255099 launched. (MISLE)
1310	Oil observed on Alcatraz. (CA DFG log, IMD Log)
1315	NRC and MSRC confirmed appropriate channel for comms and confirmed assets each had on scene. Confirmed that when MSRC helo is able to do an overflight and NRC rep would also be onboard. (NRC Timeline)
1315	First landing of helo on Pacific Responder. (MSRC Timeline)
1319	Port of San Francisco Harbor Patrol on scene taking pictures of hull damage. (CGC TERN Log)
1320	Station San Francisco RBS onscene with COSCO BUSAN. (MISLE)
1320	IMD prepared PI for upcoming overflight with ASSF. (IMD Log)
1325	255099 onscene to embark 2 personnel onboard COSCO BUSAN. (MISLE, CGC TERN Log recorded embarked at 1328)
1327	Entrance to Seal Cove was boomed at Pier 39. (CA DFG log)
1330	25406 departed scene. (MISLE)
1330	MSRC Long Beach personnel departed for the Bay Area. (MSRC Timeline)
1330	NRC dispatched additional crews. (NRC Timeline)
1336	Helo left Pacific Responder for first overflight. (MSRC Timeline)
1340	USCG notified East Bay Regional Parks. (CA DFG log, IMD Log)
1348	Sector Deputy Commander completed conference call incident briefing with SF Mayor's Office, SF City and port partners. (SITREP, IMD Log at 1352)
1355	State parks reported oil on Angel Island. (CA DFG log, IMD Log)
1359	SCAT Teams report people asking the local sheriffs/police about making claims. IMD began drafting a Letter of Designation for the COSCO BUSAN. (IMD Log)
1400	NRC prepared gear and additional crews for response. (NRC Timeline)
1402	San Francisco Fireboat Phoenix on scene. (CGC TERN Log)
1404	NRC (OSRO) reported to Unified Command. (SITREP, IMD Log)
1404	25501 departed scene. (MISLE)
1406	Alcatraz Island requested air monitoring. DFG-CA DFG contacted IH. (CA DFG log as 1415, IMD Log)
1407	Tug American River on scene with NRC personnel onboard. (CGC TERN Log)
1415	CA DFG requested that QI be identified and present in the Command Post. (CA DFG log)
1416	SCAT Team reported that San Francisco Police Marine Unit went to Alcatraz and reported

**M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007**

Time	Event
	that the South side of Alcatraz was impacted with oil. (IMD Log)
1417	MSRC contacts QI to mobilize additional personnel. (MSRC Timeline)
1418	Pacific Responder underway. (MSRC Timeline)
1426	MSRC instructs Pac/NW Region to send personnel (MSRC Timeline)
1430	UC waiting for overflight to assess affected area. Weather still prohibiting overflight. (DFG Log)
1430	Sector SF IMD began drafting SITREP/POL. (IMD Log)
1433	IMD received report that bridge abutment is structurally sound from D11 Bridge Section. (IMD Log)
1434	MSRC instructs Southern Region to send personnel. (MSRC Timeline)
1435	Raider Boat II on scene at Crissy Field. (MSRC Timeline)
1438	Second landing of helo on Pacific Responder. Weather still patchy fog. (MSRC Timeline)
1441	STA SF UTB launched. (MISLE)
1443	IMD received report that USACE has recovered 2 tons of debris from the bridge abutment. (IMD Log)
1445	Sentinel on scene w/ 6150bbls/day skimming capacity. (MSRC Timeline)
1455	ASSF HH65 experienced an in-flight casualty and returned to base. (MISLE)
1455	FOSC underway with Sta San Francisco small boat to assess damaged vessel, bridge-piling fender, and further develop pollution assessment. SCAT dispatched to Sausalito. (SITREP, IMD Log)
1500	Drug testing of COSCO BUSAN Master complete. (Drug testing of remainder of crew completed 09 Nov). (IO Statement)
1500	MSST transferred IO and MI off COSCO BUSAN. (SITREP)
1500	MSRC directed by QI to boom Aquatic Park and Crissy Field. (MSRC Timeline)
1506	ASSF HH65 on deck at ASSF. (SCC Comms Log, IMD Log at 1522)
1506	Helo leaves Pacific Responder to conduct another overflight. (MSRC Timeline)
1507	USACE at dock in Sausalito. (IMD Log)
1515	255095 and 255099 disembarked 5 personnel from COSCO BUSAN. (CGC TERN Log)
1515	QI requested NRC to boom Crissy Field with 3000-3500ft boom. NRC dispatched personnel and boom trailers to site. (NRC Timeline)
1517	CGC TERN commenced enforcement of security zone around the Delta Tower of the SFOBB as well as the already-established 100yd safety zone around the vessel. (CGC TERN Log)
1520	QI asks NRC to complete air monitoring at Alcatraz. NRC dispatches boats to site to take a look. (NRC Timeline)
1530	NRC is informed that UC will be set up at Treasure Island. QI confirms and receives update on response. NRC personnel is up on overflight (NRC Timeline)
1530	Boom boat LCM 824 w/ 8000ft boom on scene. (MSRC Timeline)
1533	STA SF UTB on scene. (MISLE)
1537	SCC updated SMIB advising mariners to keep a lookout for oil and debris in the water (MISLE)

M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007	
Time	Event
1539	Press Release, Update 2: Coast Guard Responding to Container Vessel Allision with Bay Bridge. ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1540	CGC TERN smallboat underway for personnel transfer to COSCO BUSAN. (CGC TERN Log)
1545	SCAT Teams return to Sector SF. (SITREP, IMD Log)
1547	Helo returns and lands on Pacific Responder. (MSRC Timeline)
1550	CGC TERN smallboat disembarked 4 POB from COSCO BUSAN enroute YBI. (CGC TERN Log)
1557	Personnel disembarked vessel and returned to YBI. (CGC TERN Log)
1600	Responsible Party officially included in UC. Objectives meeting held. (CA DFG log) COTP order (#07-074) issued to detain COSCO BUSAN until Salvage Plan received. (MISLE)
1600	Aquatic Park and Crissy Field boomed by Raider I and III and helo departs Pacific Responder. (MSRC Timeline)
1600	NRC crews were in operation skimming and chasing oil. (NRC Timeline)
1603	Station Golden Gate reported to SCC that NPS was closing the affected beaches. (MISLE)
1613	Press Release to 223 contacts: Coast Guard Responds to Container Vessel Allision with San Francisco Bay Bridge (Video Available). ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1621	SCC notified D11 of NPS plans to close beaches. (MISLE)
1630	NRC reports an additional 2500 ft of boom deployed and additional 4200 bbl JBF skimmer o/s. (QI response timeline)
1630	MSRC reports an additional 8K ft of boom and three additional skimmers o/s and available. (QI response timeline)
1636	ACOE reported that they recovered 95% of bridge piling fender system and tied two large pieces of oily debris to Pier 39 because of limited removal capabilities. (SITREP, IMD Log)
1641	ASSF HH65 airborne to incident. (SCC Comms log)
1644	CG Investigation Officer reports that pilot refused to provide statement without attorney present. (SITREP, IMD Log)
1649	DFG team is still on COSCO BUSAN doing comprehensive investigation of the ship's tanks to determine most accurate volume of fuel released. (DFG Log)
1652	Press Release to 228 contacts: United States Coast Guard and Department of Public Health Issue Updates on Bay Bridge Container Ship Accident. ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1700	CA DFG and ship's engineer determine that approximately 1,375 bbls (just less than 58,000 gals) fuel oil had been discharged into SF Bay. New estimate based on estimate of oil remaining in tank, soundings of tank oil was pumped into (accounting for 5 degree list), amount of fuel burned Wed am enr from Pier to Anch 7 to Anch 9 and many hrs of number crunching by Chief Engineer, Pis, & DFG rep. (CA DFG log, IMD Log at 1649)
1700	UC met to discuss the new estimate of 58,000 gallons and it was accepted as a valid number. (CA DFG log)
1701	Pacific Responder arrives on scene. (MSRC Timeline)
1715	DFG-CA DFG updated administrator of new quantity of oil spilled. (CA DFG log)

<b>M/V COSCO BUSAN allision/oil spill Chronology of Events Wed 07 Nov 2007</b>	
<b>Time</b>	<b>Event</b>
1721	STA SF UTB departs scene. (MISLE)
1723	UC notified of oily debris and SF piers. USACE will not remove debris tonight, but NRC will place boom around it. (IMD Log)
1730	UC decided to discontinue on water recovery operations at night due to safety concerns. (CA DFG log)
1730	Press Release to 228 contacts: Coast Guard Responds to Container Vessel Allision with San Francisco Bay Bridge (Video Available). ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1800	NRC and MSRC communicating. MSRC will bring boats to NRC for offloading with vac trucks. (NRC Timeline)
1810	NRC ordered baker tanks and storage and dispatched crews for 08Nov. (NRC Timeline)
1820	UC briefed that approximately 8000 gallons of product recovered by skimmers. (QI report)
1840	ASSF HH65 O/D ASSF. (SCC Comms Log)
1845	QI confirms with NIRC that FMC w/ skimmer can demob to Richmond. (NRC Timeline)
1900	IMD recommends to FOSC to request Pacific Strike Team. FOSC concurs and IMD calls Strike Team Ops for support beginning on 08Nov (LTJG Snyder and LT Kevin Sligh conversation)
1915	Press Release to 228 contacts: M/V COSCO BUSAN Allides with San Francisco Bay Bridge. (Photos Available). ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
1945	QI requests Foss Maritime w/ skimmer be on site and Angel Island at 0700 with full crew. (NRC Timeline)
2000	NRC requested to inspect/recon oil from incident site. 50ft "MIKE" boat with barge and supplies sent to location. (NRC Timeline)
2000	Sector Deputy Commander conducted a phone conference with State of California OES and surrounding county representatives, passed updated oil release information. (CA DFG log)
2030	NRC planned for additional personnel for morning ops. Notified crew that they will continue skimming as long as it is safe. (NRC Timeline)
2057	Press Release to 334 contacts: Coast Guard, Local, State Agencies Respond to Fuel Spill in San Francisco Bay. ( <a href="http://www.piersystem.com">www.piersystem.com</a> )
2100	Another press release was issued using the new estimate spill of 58,000 gallons (not UC approved). (CA DFG log) Released SITREP -POL # 1 P 080357Z NOV 07 and distributed new revised estimate to all members of UC and Regional Response Team.
2130	IAP developed for next operational period, 0700-0700. (CA DFG log)
2200	NRC setting up Decon area and off-loading from MSRC skimmers. (NRC Log)
2250	STEPHANIE LYNN transferred 1 POB from COSCO BUSAN. (CGC TERN Log)

ACP requires Sector SF to notify NRC, OES (and EPA if spill is outside FOSC zone). In this case, NRC was first notified by RP; NRC then notified SCC at 0850. RP also notified CA OES; CA OES notified CG at 0942. However, CA CA DFG was notified at 0915.

At the end of the first day's operational period, there were 8 on water skimming vessels with close to 20 support vessels and approximately 160 personnel from various federal, state, and local agencies and contract personnel (CA DFG Log)